

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/003223

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02B29/04 F02M25/07 F02B29/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02B F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 840 363 A (VALEO THERMIQUE MOTEUR) 5 December 2003 (2003-12-05) abstract; claims; figures	1, 3, 11, 17, 19
A	page 4, line 16 - page 6, line 8	2, 4-10, 12-16, 18
Y	EP 1 164 280 A (PIERBURG AG) 19 December 2001 (2001-12-19) abstract; figures	1, 3, 11, 17, 19
A	column 1, paragraph 7 - column 2, paragraph 9	2, 4-10, 12-16, 18
P, X	WO 2004/044402 A (PEUGEOT CITROEN AUTOMOBILES SA; TOMASELLI, LUDOVIC; MONIE, NICOLAS) 27 May 2004 (2004-05-27) abstract; figures	1-6, 9, 11
P, A	page 6, line 5 - page 9, line 13	7, 8, 10, 12-19
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

11 May 2005

Date of mailing of the international search report

20/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Döring, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 198 53 455 A (AVL LIST GMBH) 2 June 1999 (1999-06-02) abstract; figures column 2, line 21 - column 3, line 42 -----	1-19
A	FR 2 835 884 A (VALEO THERMIQUE MOTEUR) 15 August 2003 (2003-08-15) claims; figures page 7, line 5 - page 8, line 17 page 9, line 30 - page 10, line 26 -----	1-19
A	ES 2 174 739 A (VALEO TERMICO SA) 1 November 2002 (2002-11-01) abstract; figures -----	1-19
A	EP 0 987 427 A (MODINE MANUFACTURING CO) 22 March 2000 (2000-03-22) abstract; figures -----	1-19
A	US 5 632 256 A (EIBL MARKUS) 27 May 1997 (1997-05-27) abstract; figures -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/003223

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2840363	A	05-12-2003	FR 2840363 A1	05-12-2003
			AU 2003264668 A1	19-12-2003
			WO 03102396 A1	11-12-2003
EP 1164280	A	19-12-2001	DE 10028400 A1	20-12-2001
			EP 1164280 A2	19-12-2001
WO 2004044402	A	27-05-2004	FR 2847004 A1	14-05-2004
			WO 2004044402 A1	27-05-2004
DE 19853455	A	02-06-1999	AT 2490 U1	25-11-1998
			DE 19853455 A1	02-06-1999
FR 2835884	A	15-08-2003	FR 2835884 A1	15-08-2003
			AU 2003214355 A1	04-09-2003
			EP 1474601 A1	10-11-2004
			WO 03069149 A1	21-08-2003
			US 2005034712 A1	17-02-2005
ES 2174739	A	01-11-2002	ES 2174739 A1	01-11-2002
			WO 02052142 A1	04-07-2002
			EP 1343963 A1	17-09-2003
			ES 2186535 A1	01-05-2003
EP 0987427	A	22-03-2000	DE 19841927 A1	16-03-2000
			DE 59908232 D1	12-02-2004
			EP 0987427 A1	22-03-2000
US 5632256	A	27-05-1997	DE 19507961 A1	12-09-1996
			EP 0732487 A2	18-09-1996